

Notice of Allowability

Application No.

09/960,089

Examiner

Alonzo Chambliss

Applicant(s)

KOOPMANS, MICHEL

Art Unit

2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment B filed on 4/21/03.
2. ☒ The allowed claim(s) is/are 1-35, 76-86, and 98-108.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☒ including changes required by the proposed drawing correction filed 21 April 2003, which has been approved by the Examiner
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____ | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other _____ |

DETAILED ACTION

1. Amendment B filed on 4/21/03 has been fully considered and made of record in Paper No. 7.

Allowable Subject Matter

2. The following is a statement of reasons for the indication of allowance subject matter: the prior art of record does not teach or suggest the combination of a first semiconductor die with a plurality of bond pads and at least one redistribution bond pad circuit thereon, wherein the plurality of bond pads are electrically connected to integrated circuitry of the first semiconductor die and the redistribution bond pad circuit is electrically isolated from the integrated circuitry. A second semiconductor die having a plurality of bond pads, wherein active surface of the second die faces the active surface of the first die. An electrical connector extending between at least one of the plurality of bond pads on the second die and at least one redistribution bond pad of the plurality of redistribution bond pads on the first die in claims 1 and 22.

A first semiconductor die with a plurality of bond pads and a second semiconductor die with a plurality of bond pads, wherein the active surface of the second die faces the active surface of the first die. The second die having a peripheral edge extending laterally beyond at least one corresponding peripheral edge of the plurality of peripheral edges of the first die. A third semiconductor die disposed directly below the second die, wherein the third die has a plurality of bond pads and at least one redistribution bond pad circuit thereon. The plurality of bond pads are electrically

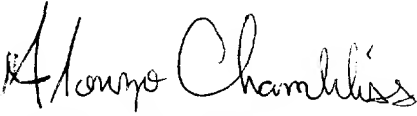
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connected to integrated circuitry of the third semiconductor die and the redistribution bond pad circuit is independent from the integrated circuitry. An electrical connector extending between at least one of the plurality of bond pads on the second die to contact an area of a substrate adjacent to the peripheral edge of the first die in claim 98.

Any inquiry concerning the communication or earlier communications from the examiner should be directed to Alonzo Chambliss whose telephone number is (703) 306-9143. The fax phone number for the Group is (703) 308-772 or 7724.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 308-7956.

AC/June 29, 2003


Alonzo Chambliss
Patent Examiner
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